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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,337	07/18/2003	Thomas S. Wong	21901-07874	4849
758	7590	12/11/2007		
FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041			EXAMINER TSE, YOUNG TOI	
			ART UNIT 2611	PAPER NUMBER
			MAIL DATE 12/11/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/622,337

Applicant(s)

WONG ET AL.

Examiner

YOUNG T. TSE

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 September 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-3, 7, 18-21 and 24 is/are allowed.
- 6) ☒ Claim(s) 10, 22, 23, 25 and 26 is/are rejected.
- 7) ☒ Claim(s) 4-5 and 8-17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 September 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. The drawings were received on September 26, 2007. These drawings are acceptable.

Claim Objections

2. Claims 4-5, 8-17, and 25-26 are objected to because of the following informalities:

In claim 4, line 3, "and the" should be "and a first input of the"; line 4, "resistor" should be "resistor connected"; line 5, "AC ground" should be "AC ground and a second input of the wide-band receiver"; and line 6, "AC ground" should be "AC ground and the second input of the wide-band receiver" in order to provide proper connection for each of the claimed subject matter of the disclosure, for example, of Figure 2A.

In claim 5, line 3, "and the" should be "and a first input of the"; line 4, "capacitor and an AC ground" should be "capacitor"; line 5, "the AC ground," should be "an AC ground; and"; and line 8, "resistor" should be "resistor and the AC ground and the second input of the wide-band receiver".

In claim 8, line 3, "an amplifier" should be "the amplifier"; line 4, "converting", "of" and "converted" should be "converting the", "of the" and "converted digital", respectively; line 7, "signals" should be "signals and a first input of the amplifier"; line 9, "source"

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should be "source and a second input of the amplifier"; and line 15, "source" should be "source and the second input of the amplifier".

In line 1 of both claims 10 and 11, "interface" should be "interface system".

In claim 10, lines 1-3, "is in the Kilobit per second range and the second data rate is in the Megabit per second to Gigabit per second range" should be "is approximately 9.6 Kilobit per second and the second data rate is approximately 2.5 Megabit per second" since the specification did not provide the support of the Kilobit per second range and the Megabit per second range.

In claim 13, line 3, "digital signals" should be "digital data signals"; line 5, "data signals" should be "digital data signals"; line 13, "capacitors" should be "capacitor"; line 19, "with the" should be "with"; line 25, "first rate" should be "first data rate"; line 29, "second rate" should be "second data rate"; and line 37, "signals at the second rate" should be "digital data signals at the second data rate".

In claim 16, lines 1 and 2, "the first" should be "each of the first" and line 2, "have" should be "has".

In claim 17, line 3, "the first matching resistors have resistance" should be "each of the first and second matching resistors has a resistance".

In claim 18, lines 3 and 4, "data signals" should be "digital data signals"; line 6, "signals to" should be "signals at a first data rate to"; and line 10, "signals to" should be "signals at a second data rate to".

In claim 22, line 3, "the high data rate" should be "the first data rate".

In claim 25, lines 7, 14, 17-18 and 20, "digital signals" should be "digital data signals"; and line 12, , "digital signals;" should be "digital data signals; and".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 10 and 22-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification did not provide the support of the Kilobit per second range and the Megabit per second range as recited in the specification and the first data rate is between 500 Megabits per second and 3 Gigabits per second as recited in claim 22 in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Wherein claim 23 depends from claim 22.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 25 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 25, lines 11 and 18-19, the phrases "the first time constant" and "the second time constant" both lack antecedent basis. Wherein claim 26 depends from claim 25.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Schoenborn relates to an AC coupling circuit comprising RC circuit and CD bias circuit for transmitting data between a transmitter circuit and a receiver circuit.

Allowable Subject Matter

8. Claims 1-3, 7, 18-21 and 24 are allowed.

9. Claims 4-5, 8-9, 11-17 and 25-26 would be allowable if rewritten or amended to overcome the objection(s) set forth in this Office action.

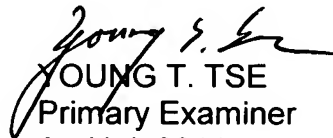
10. Claims 25 and 26 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


YOUNG T. TSE
Primary Examiner
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